

WY 2003/2004 EWA Accounting Summary

October 1, 2003 - December 31, 2004

SWP Allocation - 65%; NOD Purchases - 118.7 TAF; SOD Purchases - 35 TAF

EWA NOD and SOD Storage (+ = Acquisitions) and (- = Releases)																	
1	C/O	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
NOD (Oroville) ⁰	0.398					-0.398 ³											0.0
NOD (YCWA/PCWA)								101.5 ⁴						18.7 ⁵		6.2 ¹¹	126.4
YCWA ²											-41.3	-43.2	-16.3	-0.8			-101.5
Losses/Gains ¹⁰												-13.9	-15.4				-29.2
PCWA (released into Folsom)													-7.9	-7.9	-2.9		-18.7
Instream Uses/Non-Capturable Water																	0.0
SOD (KCWA/SCVWD)									35.0 ⁶	-11.7 ⁶	-11.7 ⁶	-11.7 ⁶					0.0
SOD (MWD)																	0.0

EWA Asset Acquisition in SWP San Luis ¹																	
2	C/O	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
E/I Relaxation																	0.0
EWA share of SWP gain						0.600											0.600
Project Pumping to reduce EWA debt																	0.0
JPOD using excess flows																	0.0
JPOD using NOD storage																	0.0
Xfer NOD - Sacramento River ²											14.4 ⁴	5.4 ⁴	0.9 ⁴	0.8 ⁴			21.5
Xfer NOD - San Joaquin River ²																	0.0
SOD SWP Surface/GW Purchases										11.7 ⁶	11.7 ⁶	11.7 ⁶					35.0
Exchange of EWA assets																	0.0
Groundwater pumping SOD																	0.0
Exchange from CVP to SWP in SL																	0.0
Total Monthly EWA Assets		0	0	0	0	0.6	0.0	0.0	0.0	11.7	26.1	17.0	0.9	0.8	0.0	0.0	57.1

EWA Asset Acquisition in CVP San Luis ¹																	
3	C/O	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
E/I Relaxation																	0.0
Project Pumping to reduce EWA debt							0.202										0.202
JPOD using excess flows																	0.0
JPOD using NOD storage											26.8 ⁴	24.0 ⁴					50.8
Xfer NOD - Sacramento River ²																	0.0
Xfer NOD - San Joaquin River ²																	0.0
SOD CVP Surface/GW purchases																	0.0
Exchange of EWA assets																	0.0
Groundwater pumping																	0.0
Exchange from SWP to CVP in SL																	0.0
Total Monthly EWA Assets	0	0	0	0	0	0	0.2	0.0	0.0	0.0	26.8	24.0	0.0	0.0	0.0	0.0	51.0

EWA Expenditures at the Export Pumps																	
4	C/O	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
SWP export cuts							-0.657 ⁹	-4.9 ⁷	-49.5 ⁷							-4.2	-59.2
CVP export cuts								-7.2 ⁸	-60.8 ⁸								-68.0
Total Expenditures	0	0	0	0	0	0	-0.7	-12.1	-110.2	0	0	0	0	0	0	-4	-127.2

EWA End-of-Month Incremental Storage Changes																	
5	C/O	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
SWP in SL (without Source Shift)	0.057	0.000	0.000	0.000	0.000	0.600	-0.657	-5	-49	12	26	17	1	1	0	-4	-2.1
CVP in SL	-0.202	0.000	0.000	0.000	0.000	0.000	0.202	-7	-61	0	27	24	0	0	0	0	-17.2
NOD Storage	0.398	0	0	0	0	-0.398	0	102	0	0	-41	-43	-16	18	0	6	24.9
SOD Storage (non-S.L.)	0.000	0	0	0	0	0	0	0	35	-12	-12	-12	0	0	0	0	0.0
Total Incremental Storage Changes	0.253	0	0	0	0	0	0	89	-75	0	0	-14	-15	19	0	2	5.6

EWA End-of-Month Storage Balance at Various Sites																	
6	C/O	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
SWP in SL (without Source Shift)	0.057	0.057	0.057	0.057	0.057	0.657	0.000	-5	-54	-43	-17	0.4	1.3	2.1	2.1	-2.1	
CVP in SL (without Source Shift)	-0.202	-0.202	-0.202	-0.202	-0.202	-0.202	0.000	-7	-68	-68	-41	-17	-17	-17	-17	-17.2	
NOD Storage	0.398	0.398	0.398	0.398	0.398	0.000	0	102	102	102	60	17	1	19	19	24.9	
SOD Storage (non-S.L.)	0.000	0	0	0	0	0	0	0	35	23	12	0	0	0	0	0.0	
EWA Asset Balance	0.253	0	0	0	0	0	0	89	14	14	14	0	-15	4	4	5.6	

San Luis Reservoir Storage Conditions																	
7	C/O	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
Total Storage (base case)		962	1123	1317	1665	1878	2020	1780	1336	831	551	515	686	803	1073	1302	
SWP		608	613	616	809	971	1067	943	728	477	386	408	512	520	601	674	
CVP		355	509	701	856	907	953	837	608	353	164	107	174	283	471	628	
Encroachment																	
Total Storage (EWA case)		962	1123	1317	1664	1878	2020	1768	1214	720	493	498	670	788	1058	1283	
MWD Source Shifting																	
Storage (with MWD source shifting)		962	1123	1317	1664	1878	2020	1768	1214	720	493	498	670	788	1058	1283	

⁰ 2004 NOD Purchases = 100(YCWA) + 18.7(PCWA).

¹ Aqueduct conveyance and evaporation losses are not included.

² Carriage water loss applies to water transfers from the Sacramento River (assumed to be 20% until modeling results indicate otherwise);

a 10% conveyance loss applies to water transfers from the San Joaquin River.

Carriage water loss in WY 2004 was 0%.

³ The SWP spilled ~ 400 af of EWA water stored in Oroville during flood control operations.

⁴ 2004 YCWA Transfer (Joint place of use)

⁵ 2004 PCWA Transfer (Joint place of use)

⁶ 2004 KCWA Transfer (SWP place of use)

⁷ The SWP costs for VAMP and post-VAMP shoulder are about 1.9 TAF (for 4/15-4/30 = -4.9 TAF; 5/1-5/15 = +3.0 TAF) (cumulatively) and 52.5 TAF, respectively.

⁸ The CVP costs for VAMP and post-VAMP shoulder are about 17 TAF and 51 TAF, respectively.

⁹ Conversion from EWA to Project water since San Luis Reservoir was physically full on March 30, 2004.

¹⁰ August: Due to water level problems in the Delta, EWA water could not be exported (9 days) (12.8 TAF)

September: Due to weed problems in CCF, EWA water could not be exported.

YCWA released additional water for the EWA (1.5 TAF)